

U.S. Appln. No. 10/005,000
Page 2

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A process comprising:
pumping an organic based liquid working fluid to an elevated pressure,
flowing the organic based liquid working fluid through a heat exchanger in a fuel cell stack,
heating the organic based liquid working fluid to a high temperature and high-pressure gas,
expanding the high temperature and high-pressure gas through an expander to produce shaft work,
using the shaft work to drive an air compressor for compressing air and delivering compressed air to a fuel cell system component,
and removing energy from the gas to change the gas to the organic based liquid working fluid.

Claim 2 (currently amended): A process as set forth in claim 1 further comprising using the shaft work to drive a pump for pressurizing and delivering cooling fluid to a fuel cell system component.

Claim 3 (canceled)

Claim 4 (canceled)

Claim 5 (canceled)

Claim 6 (canceled)

Claim 7 (currently amended): A process of heating a fuel cell stack during relatively cold startup conditions comprising:

a) pumping a fuel cell stack organic based liquid cooling fluid to an elevated pressure,

U.S. Appln. No. 10/005,000
Page 3

- b) thereafter flowing the organic based liquid cooling fluid through a heat exchanger in a fuel cell stack thereby transferring thermal energy between the fuel cell stack organic based liquid cooling fluid and a fuel cell stack,
 - c) heating the organic based liquid cooling fluid,
 - d) immediately thereafter expanding the heated cooling fluid in an expander to produce shaft work,
 - e) using the shaft work to drive an air compressor for compressing air and delivering compressed air to a fuel cell stack,
 - f) directing the cooling fluid through a condenser wherein the condenser fans are turned off, and
- repeating steps (a-f) until the temperature of the fuel cell stack has reached a predetermined temperature suitable for operating fuel cell under post startup operating conditions.

Claim 8. (original): A process as set forth in claim 7 further comprising using the shaft work to drive a pump for pressurizing and delivering cooling fluid to a fuel cell system component.

Claim 9. (canceled)

Claim 10. (new): A process as set forth in claim 1 wherein the organic based liquid working fluid comprises $\text{CClF}_2\text{CClF}_2$.

Claim 11. (new): A process as set forth in Claim 7 wherein the organic based liquid cooling fluid comprises $\text{CClF}_2\text{CClF}_2$.